

Appln No. 10/773197  
Amdt. Dated: September 27, 2006  
Response to Office Action of August 1, 2006

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**REMARKS/ARGUMENTS**

Applicant thanks Examiner for the detailed Office Action dated August 1, 2006. In response to the issues raised, the Applicant offers the following submissions and amendments.

**Amendments**

Claims 1, 19 and 38 have been amended to incorporate the features of claims 9, 28 and 45 respectively. Accordingly, claims 9, 28 and 45 have been cancelled.

Accordingly the amendments do not add new matter.

**Claims – 35USC§103**

Claims 1 and 19 *inter alia* stand rejected as obvious in light of US 6,447,104 to Keil et al.

As discussed above, claims 1 and 19 now define the features of cancelled claims 9, 28, 45. The printhead of the present invention uses less energy to eject a drop of ink than the heat capacity of that ink drop. This makes the printhead self-cooling and removes one of the primary restrictions on the print speed of thermally actuated printheads. Keil fail to teach or suggest a printhead capable of self cooling operation. It follows that claims depending from amended claims 1 and 19 are distinguished from the prior art.

Claim 38 *inter alia* stand rejected as obvious in light of Keil in view of US 4,549,191 to Fukuchi et al. As discussed above, Keil does not disclose a printhead that can self cool during operation using only the heat ejected together with the drops of ink. Fukuchi is similarly silent as to self cooling operation. Accordingly, claim 38 is patentable in view of the cited references. The claims depending from claim 38 are therefore also novel and non-obvious.

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**Conclusion**

It is respectfully submitted that the Examiner's rejections have been successfully traversed.  
Accordingly, favorable reconsideration is courteously solicited.

Very respectfully,

Applicant/s:



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Kia Silverbrook

C/o: Silverbrook Research Pty Ltd  
393 Darling Street  
Balmain NSW 2041, Australia

Email: [kia.silverbrook@silverbrookresearch.com](mailto:kia.silverbrook@silverbrookresearch.com)

Telephone: +612 9818 6633

Facsimile: +61 2 9555 7762